

IN THE CLAIMS:

Please amend claim 3 as shown below, in which deleted terms are shown with strikethrough and added terms are shown with underscoring.

1. (Previously presented) A seat position detection unit equipped with a slide mechanism that allows a seat to slide with respect to a floor, the seat position detection unit comprising:

a position sensor attached to one of a stationary member and a movable member that constitute the slide mechanism;

a detecting object, which is detected by the position sensor, and which is disposed at the other of the stationary member and the movable member; and

a mounting member adapted to mount the stationary member to the floor, wherein one of the position sensor and the detecting object that is attached to the stationary member is fixed directly to the mounting member.

2. (Original) A seat position detection unit according to claim 1, wherein

the position sensor is attached to one of the stationary member and the movable member through a connection member, wherein

the connection member has a protector which protects the position sensor.

3. (Currently amended) A seat position detection unit equipped with a slide mechanism that allows a seat to slide with respect to a floor, the seat position detection unit comprising:

a position sensor attached to one of a stationary member and a movable member that

constitute the slide mechanism;

a detecting object, which is detected by the position sensor, and which is disposed at the other of the stationary member and the movable member; and

a mounting member, adapted to mount the stationary member to the floor, wherein one of the position sensor and the detecting object that is attached to the stationary member is united with the mounting member ~~wherein~~, and wherein

the position sensor is attached to the movable member through a connection member, which has a protector that protects the position sensor, and wherein

the detecting object is connected to the stationary member through the mounting member, and wherein

the surface of the connection member, the mounting member, and the detecting object are covered with a resin.

4. (Previously presented) A seat position detection unit comprising:

a movable member, which is attached to a bottom of a seat so that the movable member is located along the fore-and-rear directions with respect to the seat;

a stationary member, which is put together with the movable member and allows the seat to slide along the stationary member;

a mounting member adapted to mount the stationary member to a floor;

a position sensor, which is attached to the movable member; and

a detecting object, which is detected by the position sensor, and is disposed at the stationary member,

wherein the detecting object and the mounting member are integrally formed to provide a single piece, and wherein

the position sensor detects the detecting object by measuring an interruption of a magnetic field caused by the detecting object.

5. (Original) A seat position detection unit according to claim 4, wherein
the position sensor is attached to the movable member through a connection member, and
wherein

the connection member has a protector, which protects the position sensor.

6. (Previously presented) A seat position detection unit according to claim 5, wherein
the stationary member is provided along a fore-and-rear directions of the seat, and
wherein the seat position detection unit includes two of the mounting members,

a first mounting member that mounts the stationary member to the floor at a fore-side end of the stationary member, and

a second mounting member that mounts the stationary member to the floor at the rear-side end of the stationary member, and wherein

the first mounting member and the detecting object are integrally formed to provide the single piece.

7. (Previously presented) A seat position detection unit comprising:

a movable member, which is attached to a bottom of a seat so that the movable member is

located along the fore-and-rear directions with respect to the seat;

a stationary member, which is put together with the movable member and allows the seat to slide along the stationary member;

a mounting member adapted to mount the stationary member to a floor;

a position sensor, which is attached to the movable member; and

a detecting object, which is detected by the position sensor, and is disposed at the stationary member,

wherein the detecting object and the mounting member are provided as a single piece, and wherein

the position sensor is attached to the movable member through a connection member, and wherein

the connection member has a protector, which protects the position sensor, and wherein the stationary member is provided along a fore-and-rear directions of the seat, and wherein the seat position detection unit includes two of the mounting members,

a first mounting member that mounts the stationary member to the floor at a fore-side end of the stationary member, and

a second mounting member that mounts the stationary member to the floor at the rear-side end of the stationary member, and wherein

the first mounting member and the detecting object are integrally formed to provide the single piece, and wherein

the surface of the mounting member and the connection member are covered with a resin.

8. (Previously presented) A seat position detection unit according to claim 1, wherein the mounting member fixed with one of the position sensor and the detecting object is provided as a single piece, and is attached to the stationary member with a single fastener.

9. (Previously presented) A seat position detection unit according to claim 4, wherein the single piece is attached to the stationary member with a single fastener.

10. (Previously presented) A seat position detection unit according to claim 1, wherein the mounting member fixed to one of the position sensor and the detecting object is integrally formed to provide a single piece.

11. (Previously presented) A seat position detection unit according to claim 4, wherein the position sensor includes a magnet and a magnet sensor, and the magnet is mounted so as to confront the magnet sensor in a parallel, spaced apart relationship, and wherein
a magnetic field between the magnet and the magnet sensor is interrupted by the detecting object when the detecting object is received in the space between the magnet and the magnet sensor.

12. (Previously presented) A seat position detection unit according to claim 4, wherein:
the mounting member includes a mounting surface for securing the mounting member to the stationary member and a first flange extending at an oblique angle from the mounting member for securing the mounting member to the floor; and

the detecting object is a second flange extending normally from the mounting member and operatively cooperates with the position sensor to indicate seat position.

13. (Previously presented) A seat position detection unit according to claim 11, wherein:

the mounting member includes a mounting surface for securing the mounting member to the stationary member and a first flange extending at an oblique angle from the mounting member for securing the mounting member to the floor; and

the detecting object is a second flange extending normally from the mounting member and operatively cooperates with the position sensor to indicate seat position.

14. (Previously presented) A seat position detection unit according to claim 1, wherein the position sensor includes a magnet and a magnet sensor, and the magnet is mounted so as to confront the magnet sensor in a parallel, spaced apart relationship, and wherein

a magnetic field between the magnet and the magnet sensor is interrupted by the detecting object when the detecting object is received in the space between the magnet and the magnet sensor.

15. (Previously presented) A seat position detection unit according to claim 1, wherein:

the mounting member includes a mounting surface for securing the mounting member to the stationary member and a first flange extending at an oblique angle from the mounting member for securing the mounting member to the floor; and

the detecting object is a second flange extending normally from the mounting member

and operatively cooperates with the position sensor to indicate seat position.

16. (Previously presented) A seat position detection unit according to claim 14, wherein:

the mounting member includes a mounting surface for securing the mounting member to the stationary member and a first flange extending at an oblique angle from the mounting member for securing the mounting member to the floor; and

the detecting object is a second flange extending normally from the mounting member and operatively cooperates with the position sensor to indicate seat position.